



1U4

SHARP-CUTOFF PENTODE

MINIATURE TYPE

1U4

GENERAL DATA

Electrical:

Filament, Coated:

Voltage 1.4 dc volts
Current 0.05 amp

Direct Interelectrode Capacitances:

Grid No.1 to plate^o 0.01 max. $\mu\mu\text{f}$ ←
Grid No.1 to filament (-) &
grid No.3 & internal shield,
and grid No.2[•] 3.6 $\mu\mu\text{f}$
Plate to filament (-) &
grid No.3 & internal shield,
and grid No.2[•] 7.5 $\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

Plate Voltage 90 volts
Grid-No.2 Voltage 90 volts
Grid-No.1 Voltage 0 volts
Plate Resistance (Approx.) 1 megohm ←
Transconductance 900 μmhos ←
Plate Current 1 ma ←
Grid-No.2 Current 0.5 ma ←
Grid-No.1 Voltage (Approx.) for
transconductance of 10 μmhos -4 volts ←

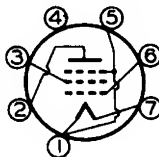
Mechanical:

Mounting Position Any
Maximum Overall Length 2-1/8"
Maximum Seated Length 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip) . 1-1/2" $\pm 3/32$ "
Maximum Diameter 3/4"
Bulb T-5-1/2

Base Small-Button Miniature 7-Pin (JETEC No.E7-1)

Basing Designation for BOTTOM VIEW 6AR

Pin 1-Filament (-),
Grid No.3,
Internal
Shield
Pin 2-Plate
Pin 3-Grid No.2
Pin 4-No Connection
Pin 5-Filament (-),
Grid No.3,
Internal
Shield
Pin 6-Grid No.1
Pin 7-Filament (+)

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 110 max. volts
GRID-No.2 (SCREEN) VOLTAGE 110 max. volts

^o Without external shield.

[•] With external shield JETEC No.316 connected to pin No.1 or pin No.5.

←Indicates a change.

NOV. 5, 1954

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DATA

IU4



IU4

SHARP-CUTOFF PENTODE

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value 0 max. volts
→ TOTAL CATHODE CURRENT 6 max. ma

Typical Operation as Resistance-Coupled Amplifier:

*See RESISTANCE-COUPLED AMPLIFIER CHART No.3
at front of this Section*

→Indicates a change.

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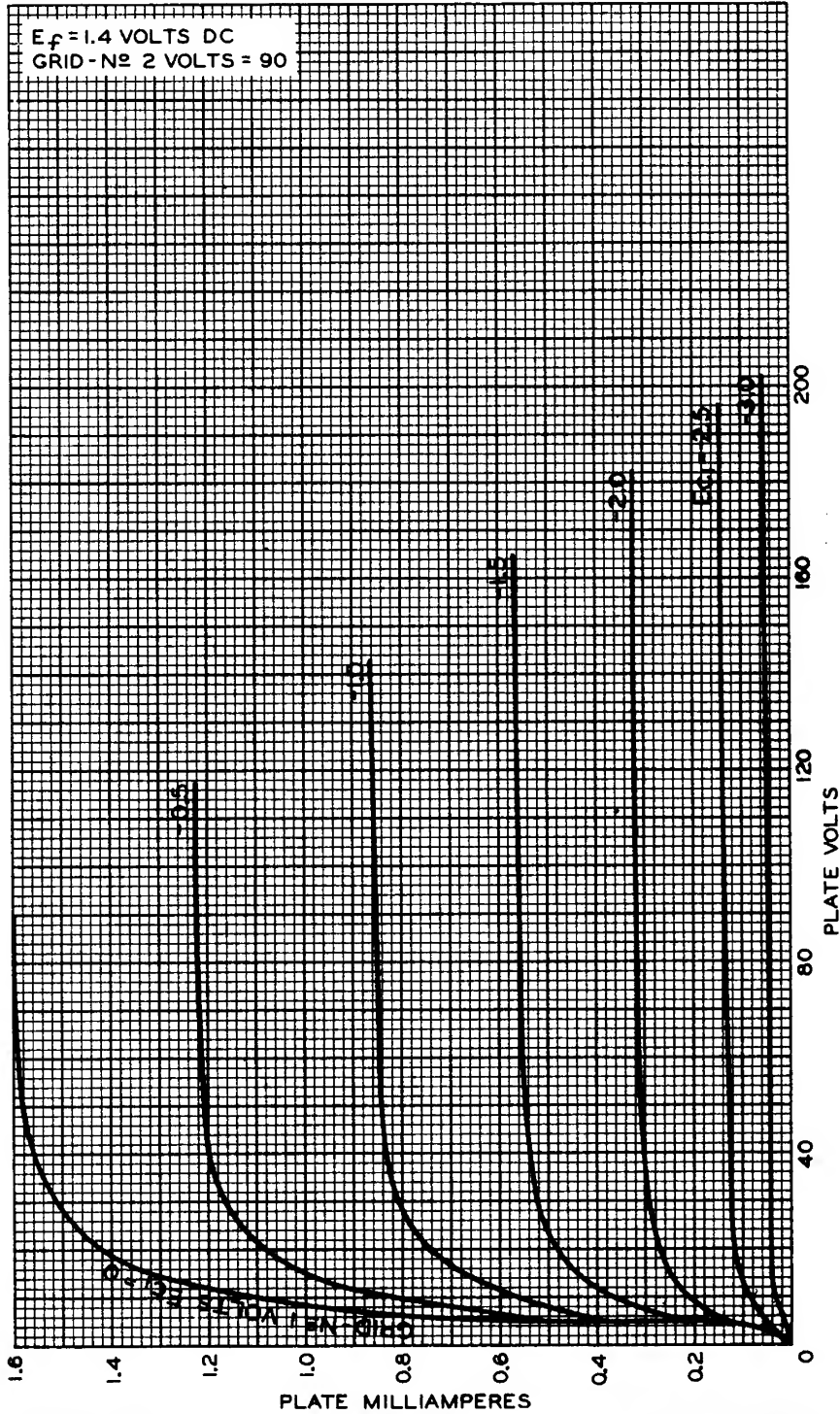
DATA



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AVERAGE PLATE CHARACTERISTICS



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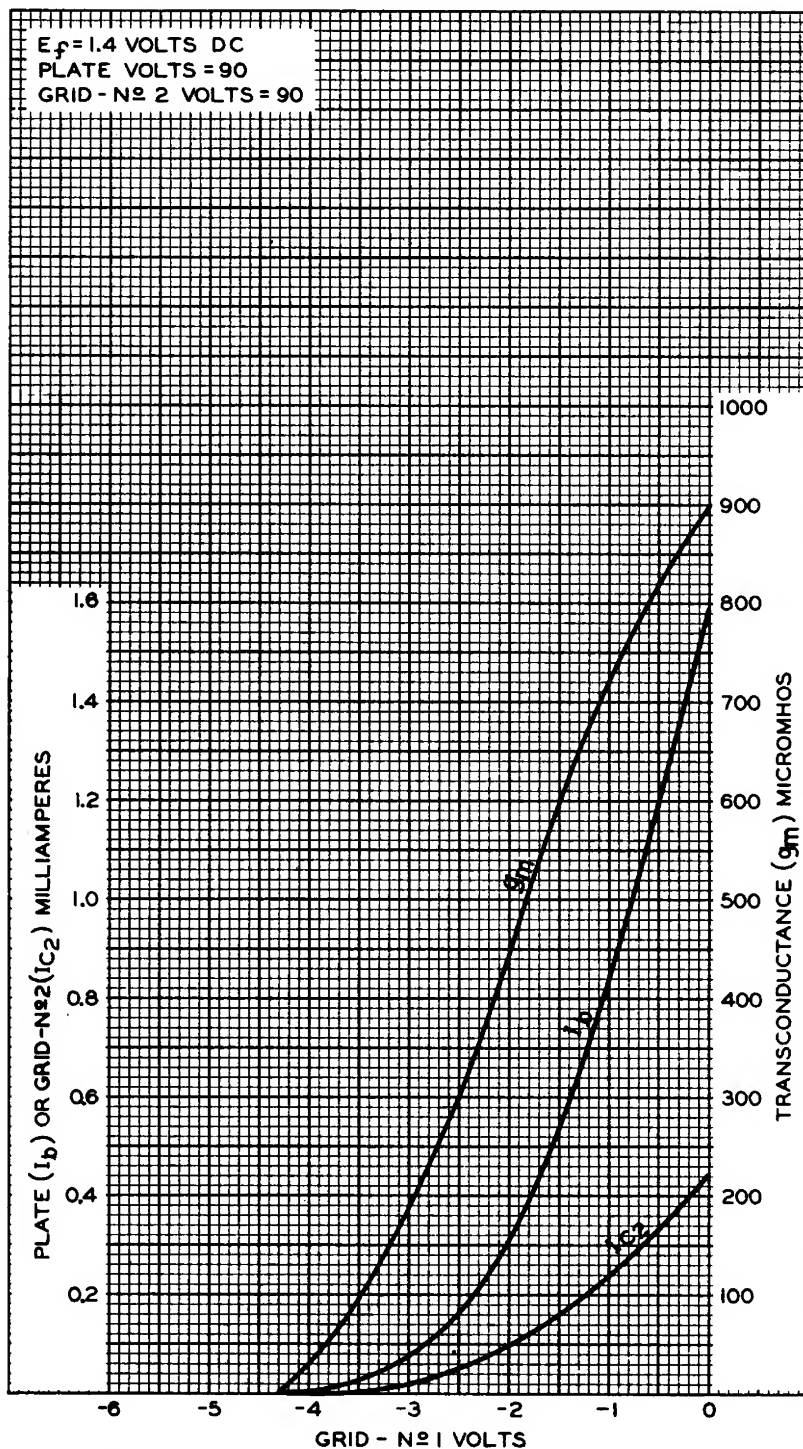
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AVERAGE CHARACTERISTICS



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